

# Manual for the EHC03

You don't like to read manuals? We too... However, it will take only 2 minutes of your time to read it and 10 minutes for the installation and you will have more fun with your new EHC :-)

Just connect the 5 connectors to the EHC. Every output is short circuit protected and will limit the maximum current between 6 and 16 Ampere after some seconds. The starter solenoid output is rated with maximum currents up to 18 Ampere and will limit the current in a case of a short circuit after about 20 - 40 seconds, depending of the short circuit current and the temperature. **However, we suggest to wire an inline 20 A fuse in the + 12 Volt line to the harness what will protect the EHC in case of a short circuit at the starter solenoid wire.** A short circuit increases the temperature of a part in the EHC very fast up to 150 degree Celsius what result in small gaps in the potting material, following that the box is not waterproof anymore and the durability of the EHC is decreased if you like to ride in the rain...

## Adjustment of the different functions:

The EHC03 can be used in most circumstances without any modification. However, you can easily change a few functions in the EHC03 without being a software specialist. Just press the "Start" button while switching on the ignition switch and you are in the "setup" mode. A one time flash will indicate the first option, what is the "Show flasher" function. Just press the "right" button if you would like to activate it or the "left" button if you want to switch off this function. After a press on a direction button you will come immediately to mode 2 what is indicated with 2 flashes of the turn signals. The following options are possible:

Number of flashes	Mode	Left flasher button	Right flasher button	Description
1 x	Show flasher	Off	On	2 emergency flashes when power on the box
2 x	Flasher auto off	Off	On	The flasher switches off after 20 or 40 times
3 x	Flasher auto off	20 flashes	40 flashes	Number of repeats when "Flasher Auto" is on
4 x	Brake light flasher	Off	On	The brake light will flash 3 times before it will be permanent on

**Your settings are stored after choosing the last option.** You are done! ... it's that simple... The EHC will keep your settings after a power off. However, you can change the settings every time you want.

The EHC was developed for an implementation in BD bikes. It should be installed by professional well trained engineers only. The EHC can be damaged in case of reverse polarity. All warranty claims are become invalid in this case. We strongly suggest you to use the implemented rubber damper in order to reduce unwanted vibrations at the box and connectors. Please check your local regulations regarding the traffic light rules in your country before of the use of the EHC on your bike. Please be aware that we are not responsible for any hazards, damages or disadvantages due to the use of the EHC The electronicbox devices are registered under the number DE54933725 WEEE as B2C device. We also declare that the EHC is conform to the CE and ROHS regulations for the European market.

We tried to keep the functions of the EHC and this manual as simple as possible. If you have any questions while the installation please don't hesitate to contact us at: [info@elektronikbox.de](mailto:info@elektronikbox.de)

## Technical specifications:

Dimensions: 100 mm x 50 mm x 25 mm

Material: ABS, cast with 2 K epoxy

Temperature range: -20 degrees C to +70 degrees C.

IP53 according to DIN EN 60529

Power supply: 8 - 20 volts

Current consumption in idle state: about 80 uA

Max. Power consumption during operation: 20 Ampere for about 20 seconds, 7 Ampere permanent

Outputs: short-circuit protected between 6 and 15 Ampere, self-resetting after cooling down.

**We wish you to have a lot of fun with your new EHC03 in your bike and of course always Ride Safe!**